

## 1.01 SINGLE POINT SOURCE WHITE LIGHT WASH FIXTURE

## A. General

1. The fixture shall be a high CRI white light cooled LED luminaire with local control and mains dim. Capability. The fixture shall be the Work Light II WL-90 by Altman Stage Lighting, Inc. or approved equal.
2. The fixture shall incorporate a state-of-the-art microprocessor-controlled solid state LED light engine, and on-board power supply.
3. The fixture shall utilize convective cooling and feature advanced cooling LED mitigation and control.
4. The fixture shall utilize a high efficiency optics and reflector system to achieve greater than 14,000 lumens of output with beam softening diffuser attached.
5. IES photometric files, for all offered CCT's shall be available upon request from the manufacturer to model light output using the industry standard design software.
6. The fixture shall be ETL Listed to UL1573, and UL8750 LED for stage and studio use as well as Portable Electric Luminaires (UL Standard 153) and CE marked.
7. Fixtures which do not comply with this specification shall not be accepted.

## B. Physical

1. The fixture shall be constructed in majority of an aluminum formed shell. Construction shall employ all corrosion-resistant materials and hardware and shall be free of pits and burrs.
2. Standard finish shall be epoxy black, electrostatic application. The fixture shall be available with a black and White color finish, with custom colors upon request.
3. Power supply, cooling and electronics shall be integral to each unit.
4. Fixture dimensions shall be 14.56" x 6.81" x 8.08" (369 x 172 x 205mm) and weigh 11 lbs (4.98 kg) with accessories.
5. The fixture shall include a diffuser get optic to reduce and soften the fixtures output.

6. Fixture shall be equipped with a single slot accessory holder with tool-free quick release accessory holder clips with self-closing accessory retaining latch.
7. An integrated rigid flat steel yoke with locking tilt handle shall be available for overhead pipe mounting.
  - a. Pipe mounted fixtures shall be supplied as an additional accessory, a cast iron C-clamp Altman #510 suitable for use on up to 2" nominal (50.8 mm) O.D. pipe. Clamp must incorporate a 360-degree rotational "safety stud" with locking bolt. Any clamp not offering this safety feature will not be acceptable.
  - b. Fixtures shall be supplied, as an additional accessory, with stainless steel safety cable for use when securing the fixture to a pipe.

C. Thermal

1. The fixture shall be cooled via a passive convection cooling system and shall be capable of Progressive Output Management (POM): where the fixtures' logic follows a set of rules based upon the output settings of the unit and its environment ambient temp.
2. Under normal operating conditions, the LED engine shall be capable of 50,000 hours rated lifespan to LM-70 / 70% maximum calibrated intensity with Progressive Output Management cooling, units not utilizing this style of cooling management shall not be accepted.
3. Ambient operating temperature shall be -0°C to 40°C (32°F to 104°F) non-condensing and IP-20 Rated for indoor use.

D. Electrical

1. The fixture shall be equipped with 100V to 240V 50/60 Hz auto-ranging internal power supply and requires power from either a mains dim or constant "non-dim" power source.
2. The fixture shall receive power via a Nuetrix PowerCon rated inlet and thru power via a Nuetrix PowerCon rated connections.

E. Local and Mains Dim. Control

1. A local control potentiometer shall be integrated into the fixture. The Local control shall be capable of dimming the fixture – locally, when connected to a constant power supply.

2. The Fixture shall also be capable of Mains dim control when connected to either a phase cut or triac style dimmer.

F. Optical

1. A Single point source with both a stippled reflector and a secondary diffuser shall make up the optical system. This system shall provide over 14,000 lumens of output with soft 120° distribution.

G. Light Emitting Diodes

1. The fixture shall use a specific 3000K or 5000K COB LEDs offering a CRI over 90 and a Duv' less than .006.
2. The fixtures led's shall be discretely binned in and fall with in two (2) McAdam ellipse to ensure consistency from fixture to fixture.

H. Dimming Engine

1. The fixture shall provide full range dimming performance based upon its power input and configuration and shall be equipped with an on board dimmer for set it and forget it output
2. LEDs shall be driven by Pulse Width Modulation. (PWM)

**END ALTMAN LIGHTING WORK LIGHT II WL-90 SPECIFICATION**